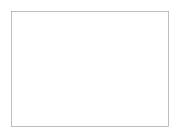


PHOTOGRAPHIC INTERPRETATION REPORT

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R SS CONSTRUCTION AT SHANG-HAI NAVAL BASE AND SHIPYARD KIANG-NAN DOCK COMPANY, CHINA



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ABSTRACT

1. This report describes double-hulled submarine construction	
in China by detailing R submarine (SS) construction procedures at	
Shang-hai Naval Base and Shipyard Kiang-nan Dock Company	25X
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and contains text, a location map, nine photo-	25X
graphs and references.	

INTRODUCTION

2. Submarines are built at four shipyards in China
Hu-lu-tao Naval Base Shipyard and Port Facility
Wu-han Shipyard Wu-chang Huang-pu Naval Base and
Shipyard, and Shang-hai Naval Base and Shipyard
Kiang-nan Dock Company (Figure 1). The Kiang-nan shipyard (Figure
2) is the only one of the four where much of the construction takes
place in open areas. Only jigs (cradle-like devices used in the
fabrication process) and the top sections of outer hull have been
observed in open areas at the other three shipyards. Both items
have been precisely measured, and the widths of the jigs and the
top outer hull sections are never greater than the beam. Therefore,
the identification of jigs with a width greater than the beam of the
R SS indicates the construction of a submarine with a larger beam.
The jigs and the top sections of outer hull have provided the best
clues to present or future construction of submarines at three of
the four shipyards prior to launch.

BASIC DESCRIPTION

3. Double-hulled submarine construction in China can be described by detailing R SS construction procedures at Shang-hai Naval Base and Shipyard Kiang-nan Dock Company.

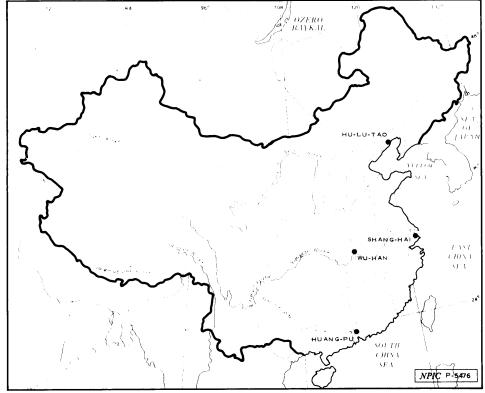


FIGURE 1. LOCATION MAP

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Materials Storage

4. Steel plate for use in shipbuilding is stored in the steel plate storage area adjacent to the large fabrication building.

Fabrication

- 5. Steel plate from the storage area is cut and shaped for use in fabricating R SS pressure hull sections and outer hull sections in the large fabrication buildings. The hull plate is then moved to the platen (fabrication) area at the head of the submarine buildingways (Figure 3). It is fabricated into pressure hull sections probably in two moveable weather sheds and into outer hull sections in the jigs out in the open (Figure 4). Jigs are also used to join three-quarters of an outer hull section to a completed pressure hull section (Figure 5) to form a submarine subassembly section. These subassembly sections are stored in the area near the turntable (Figure 6). Subassembly sections are then joined to form three modular midsections in the large fabrication building (Figure 7).
- 6. The modular midsections are moved from the large fabrication building to the submarine buildingways by a rail, transverser, and turntable system (Figure 8). The upper portion of the rails on the submarine buildingways appears to be part of a hydraulic mechanism which permits the track to assume an inclined or horizontal

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position. Such a procedure would facilitate the transfer of a modular midsection from the transverser to the inclined buildingways (Figure 9). Assembly 7. After three modular midsections have been moved onto the buildingways, they are welded together. Then the stern and bow sections are added to complete the submarine hull.			
and bow sections are acced to complete the Submarine Anii. 8. During the assembly phase on the buildingway, sections of pressure hull are removed to allow access to the engineering spaces. While the sonar array is being installed the bow section is covered (Figure 10). Hear the end of the assembly phase, the sail with the beaver tail exhaust port is placed in position on the submarine hull and the pressure hull sections from the engineering spaces are replaced. Finally, the sections which form the top part of the outer hull are emplaced.			
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Launch and Fitting Out	
9. The submarine is then launched, and the final fitting-out process begins at the upstream fitting-out wharf (Figure 2).	
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